

WHAT IS CLAIMED IS:

1. A mobile communication system including multiple base stations that are interconnected two-
5 dimensionally and offer radio communication services in individual service areas, each of said base stations comprising:

information exchanging means for exchanging information about broadcast information with other
10 base stations; and

broadcast information generating means for generating broadcast information about a broadcasting area of said base station from information about
15 broadcast information that is sent from said other base stations and obtained by said information exchanging means.

2. The mobile communication system as claimed in claim 1, wherein said multiple base stations are
20 interconnected via an IP network.

3. The mobile communication system as claimed in claim 2, wherein said information exchanging means of each of said base stations sends its own information
25 about the broadcast information to other base stations using a multicast address.

4. The mobile communication system as claimed in any one of claims 1-3, wherein the information about the broadcast information includes information for controlling coverage of the information about the broadcast information.

5. The mobile communication system as claimed in claim 4, wherein the information for controlling the coverage of the information includes a hopping number field value.

6. The mobile communication system as claimed in claim 4, wherein the information for controlling the coverage of the information includes latitude and longitude information of a source base station and its desired reception coverage value.

7. The mobile communication system as claimed in claim 1, further comprising a mobile station that comprises means for acquiring broadcast information about an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

8. The mobile communication system as claimed in claim 2, further comprising a mobile station that comprises means for acquiring broadcast information

about an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

5 9. The mobile communication system as claimed in claim 3, further comprising a mobile station that comprises means for acquiring broadcast information about an area other than a broadcasting area the mobile station is visiting, from a base station in the
10 broadcasting area the mobile station is visiting.

1054734 111301
10. The mobile communication system as claimed in claim 4, further comprising a mobile station that comprises means for acquiring broadcast information
15 about an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

11. The mobile communication system as claimed in
20 claim 5, further comprising a mobile station that comprises means for acquiring broadcast information about an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

25

12. The mobile communication system as claimed in claim 6, further comprising a mobile station that

comprises means for acquiring broadcast information about an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

5

13. A distributed broadcast information control method in a mobile communication system including multiple base stations that are interconnected two-dimensionally and offer radio communication services in individual service areas, each of said base stations comprising the steps of:

exchanging information about broadcast information with other base stations; and

generating broadcast information about a broadcasting area of said base station from information about broadcast information that is sent from said other base stations.

14. The distributed broadcast information control method in the mobile communication system as claimed in claim 13, wherein said multiple base stations are interconnected via an IP network.

15. The distributed broadcast information control method in the mobile communication system as claimed in claim 14, wherein each of said base stations sends its own information about the broadcast information to

other base stations using a multicast address when exchanging the information.

16. The distributed broadcast information control
5 method in the mobile communication system as claimed
in any one of claims 13-15, wherein the information
about the broadcast information includes information
for controlling coverage of the information about the
broadcast information.

10

17. The distributed broadcast information control
method in the mobile communication system as claimed
in claim 16, wherein the information for controlling
the coverage of the information includes a hopping
15 number field value.

18. The distributed broadcast information control
method in the mobile communication system as claimed
in claim 16, wherein the information for controlling
20 the coverage of the information includes latitude and
longitude information of a source base station and its
desired reception coverage value.

19. The distributed broadcast information control
25 method in the mobile communication system as claimed
in claim 13, further comprising the step of causing a
mobile station to acquire broadcast information about

an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

5 20. The distributed broadcast information control method in the mobile communication system as claimed in claim 14, further comprising the step of causing a mobile station to acquire broadcast information about an area other than a broadcasting area the mobile
10 station is visiting, from a base station in the broadcasting area the mobile station is visiting.

21. The distributed broadcast information control method in the mobile communication system as claimed
15 in claim 15, further comprising the step of causing a mobile station to acquire broadcast information about an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

20

22. The distributed broadcast information control method in the mobile communication system as claimed in claim 16, further comprising the step of causing a mobile station to acquire broadcast information about
25 an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

23. The distributed broadcast information control method in the mobile communication system as claimed in claim 17, further comprising the step of causing a mobile station to acquire broadcast information about an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

24. The distributed broadcast information control method in the mobile communication system as claimed in claim 18, further comprising the step of causing a mobile station to acquire broadcast information about an area other than a broadcasting area the mobile station is visiting, from a base station in the broadcasting area the mobile station is visiting.

25. A base station that offers radio communication services in a service area, said base station comprising:

information exchanging means for exchanging information about broadcast information with other base stations; and

broadcast information generating means for generating broadcast information about a broadcasting area of said base station from information about broadcast information that is sent from said other base

stations and obtained by said information exchanging means.

26. The base station as claimed in claim 25, wherein
5 said information exchanging means sends its own
information about the broadcast information to other
base stations using a multicast address.

10064734-11301
FOEFF-4E24500F